GOVERNMENT OF INDIA
STEEL
LOK SABHA

STARRED QUESTION NO:297
ANSWERED ON:10.12.2001
LIFE CYCLE ASSESSMENT STUDY OF STEEL PLANTS
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Will the Minister of STEEL be pleased to state:

(a) whether life cycle assessment study for optimum utilization of resources by SAIL, Bhilai, TISCO, Jamshedpur and RINL, Vizag Steel Plants has been initiated in the recent past;

(b) if so, the details thereof and other plants in which such system has been set up so far;

(c) the expenditure incurred on the study; and

(d) the steps taken by the Government for development and promotion of cleaner technologies in other steel plants?

Answer

MINISTER OF STATE FOR STEEL (SHRI BRAJA KISHORE TRIPATHY)

(a)&(b): Yes, Sir. The Ministry of Environment and Forests (MOEF), Government of India initiated the first multi-institutional study of Life Cycle Assessment (LCA) for Indian Steel Sector in March, 1997, jointly with the active participation of the three premier integrated steel plants, namely, Bhilai Steel Plant (BSP), Steel Authority of India Limited, Tata Iron and Steel Company Limited (TISCO), Jamshedpur and Visakhapatnam Steel Plant (VSP), Rashtriya Ispat Nigam Limited (RINL). The study envisages a `cradle t gate` analysis of the environmental burdens associated with the production of steel right from the extraction of ore till the steel exit gate using a steel industry customised software, Ecobilan Model for the Blast Furnace-Basic Oxygen Furnace (BF-BOF) route.

The LCA study initiated by the Ministry of Environment & Forests (MOEF) is nearing completion. Data inventory analysis reports for reference years 1997-98, 1998-99 and 1999-2000 have been compiled by the steel plants using the Ecobilan Model.

As per available information, in no other steel plant such system has been set up so far.

(c) The total outlay for the study is Rs.4.18 crore out of which Government of India`s share is Rs.1.39 crore. Out of Rs.1.39 crore a sum of Rs.1.3 crore has already been released. The Steel Authority of India Limited (SAIL) has incurred an expenditure of Rs. 3.55 lakh on the Life Cycle Assessment Study. VSP/RINL incurs the expenditure in terms of man hours spent and no separate record of cost on this head is maintained.

(d) Ministry of Steel have been propagating the idea in different fora about the need for adoption of energy efficient cleaner technologies in various processes of steel manufacture.